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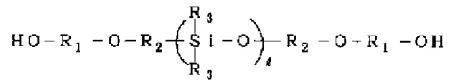
(54) **SILICON-BASED BLOCK COPOLYMER AND
MEMBRANE MADE THEREOF**

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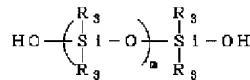
(57) Abstract:

PURPOSE: To obtain a new copolymer giving a separation membrane having high gas transmission coefficient by reacting two kinds of siloxanediols with a diisocyanate and a carbonate diol.

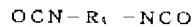
CONSTITUTION: The objective block copolymer is produced by using (A) a siloxanediol of formula I (R_1 and R_2 are bivalent hydrocarbon group; R_3 is methyl or phenyl; (1) is ≥ 8), (B) a siloxanediol of formula II ((m) is ≥ 8), (C) a diisocyanate of formula III (R_4 is aliphatic group, alicyclic group or aromatic group) and (D) a carbonate diol of formula IV (R_5 is aliphatic group; (n) is ≥ 3) as starting raw materials, dissolving the component C in an organic solvent, reacting with the component A and the component B in nitrogen gas stream and finally adding and reacting the component D to the above reaction product.



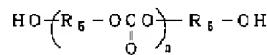
I



II



III



IV